UNITED STATES DEBARTMENT OF COMMERCE United States Ratent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,785	09/29/2003	Atsushi Date	03500.017602.	7534
5514 7590 03/23/2007 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			EXAMINER	
			FIEGLE, RYAN PAUL	
NEW YORK, NY 10112		•	ART UNIT	PAPER NUMBER
			2183	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		. 03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/671,785	DATE, ATSUSHI		
		Examiner	Art Unit		
		Ryan P. Fiegle	2183		
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on <u>08 February 2007</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims	V ·			
5)□ 6)⊠ 7)□	Claim(s) <u>1-9</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	·			
Application Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 3. The specification does not support the amended claims. The new claims would make it appear that every time control is switched off between CPUs, the CPU that previously controlled the CPU bus is reset. On the contrary, page six of the specification simply states that the External Bus Interface does not issue a right-to-use signal if CPU chip 103 is being reset.

There is no evidence whatsoever to support the wording of the claims, and therefore the new claim limitations will not be treated on the merits.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/671,785

Art Unit: 2183

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 5. Claims 1-3 and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Booker et al. (US Patent 6,347,294).
- 6. As per claim 1:

A processor system on a single semiconductor substrate, wherein the processor system is provided with a built-in processor (column 3, lines 33-38), a memory controller (column 4, lines 9-15; Figure 2, item 126), an external bus interface that can connect an external processor from outside of a single semiconductor substrate (column 3, lines 39-52), a processor bus which is connected with the built-in processor and the external bus interface (column 4, lines 32-36; Figure 2/3, item 152), and a connection unit that mutually connects, the memory controller and the processor bus (column 4, lines 24-39; column 4, lines 64-67; column 5, lines 1-8)

wherein the built-in processor and the external bus interface are responsive to respective enable signals (column 5, lines 57-67; column 6, lines 1-5; Figure 6),

and wherein one of the respective enable signals is asserted while the other one of the respective enable signals is deasserted, so that one of the built-in processor and the external bus interface corresponding to the asserted enable signal can be used exclusively (column 5, lines 57-67; column 6, lines 1-5; Figure 6).

7. As per claim 2:

Page 3

Art Unit: 2183

The processor system according to claim 1, wherein the connection unit includes a crossbar switch (column 4, lines 64-67; column 5, lines 1-8).

8. As per claim 3:

The processor system according to claim 1, wherein the connection unit includes a common bus (column 4, lines 24-39).

9. As per claim 7:

The processor system according to claim 1, wherein the built-in processor and the external bus interface are connected through a bus common to the connection unit (column 4, lines 64-67; column 5, lines 1-8; Figure 3).

10. As per claim 8:

The processor system according to claim 1, wherein the built-in processor and the external processor use in common programs stored in memory controlled by the memory controller (column 4, lines 9-15; column 4, lines 49-50; column 2, lines 24-28) (Since the EMCPU and EXCPU use the same common memory that is controlled by the DMA controller and the EMPCU acts as the EXCPU's I/O controller when the EXCPU is present, that means that the EXCPU has to perform the actions that the EMCPU normally performs when the EXPCU is not present. Therefore they perform common programs.).

11. As per claim 9:

The processor system according to claim 1, further comprising:

an image data transfer bus connected with the connection unit (column 4, lines 2-5); and

Art Unit: 2183

an image output device interface or an image input device interface connected with the image data transfer bus on the semiconductor substrate (column 3, lines 66-67; column 4, lines 1-2).

Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Booker et al. as applied to claim 1 in view of Ozcelik et al. (US Patent 6,041,400).
- 14. As per claim 4:

Booker et al. do not teach a second built-in processor connected to the connection unit on the semiconductor substrate. Ozcelik et al. do (Ozcelik et al.: Figure 3, item 62).

Both Ozcelik et al. and Booker et al. teach embedded systems for controlling a television (Booker et al.: column 3, lines 27-29) (Ozcelik et al.: column 5, lines 60-63).

Ozcelik et al. comment that using multiple cores significantly reduces the complexity of the OS (Ozcelik et al.: column 3, lines 33-37).

Therefore, it would have been obvious to one of ordinary skill in the pertinent art at the time of the applicant's invention that applying Ozcelik's multiple cores to Booker et al. would reduce the complexity of the OS.

Response to Arguments

15. Applicant's arguments filed 2/8/07 have been fully considered but they are not persuasive. The specification does not support the amendments to the claims.

Conclusion

16. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Fiegle whose telephone number is 571-272-5534. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on 571-272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2183

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ryan P Fiegle Examiner Art Unit 2183

EDDIE CHAN
EDVISORY PATENT EXAMIN

PERVISURY PARTER 2100